

TCP Connection behind NAT Router

(KX-TGP series)

No. 02-015

April 20 , 2011

Ver.1.0

Panasonic Corporation

Abstract about this document

This document describe about setting of TCP connection behind NAT router.

Revision history

Date	Version	Revision	Firmware version
Apr. 20, 2011	Ver. 1.0	Initial Release	All versions

Outline

If you use phone using TCP located behind NAT router, it may required to open port of NAT router for port forwarding otherwise sometimes SIP communication cannot be established.

NAT Router settings

Step1: NAT router settings

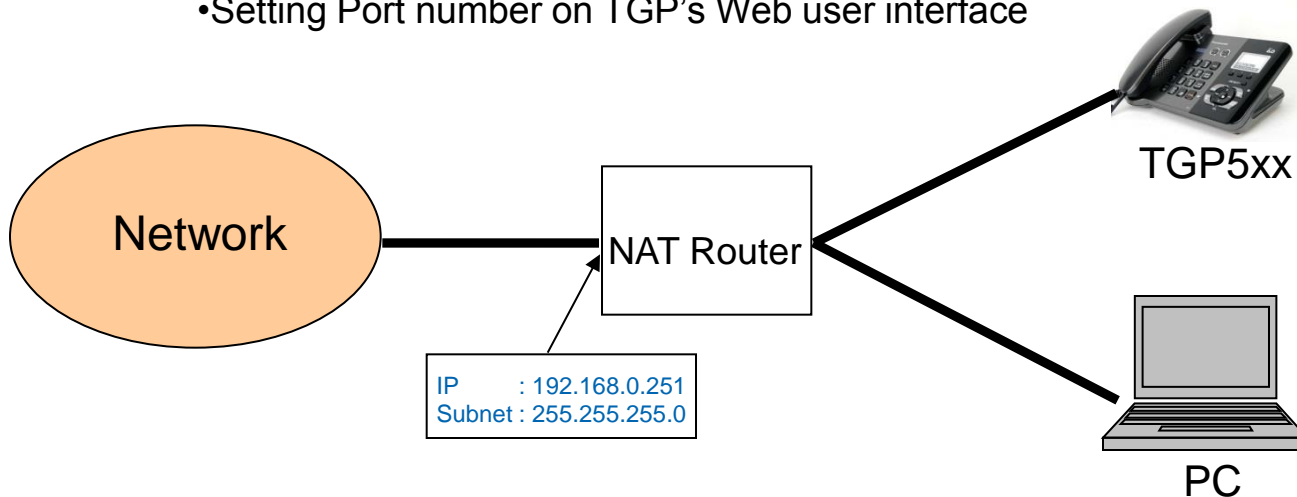
TGP settings

Step2: TGP Settings (Static global IP address)

- Setting Static global address on TGP's Web user interface

Step3: TGP Settings (Port number)

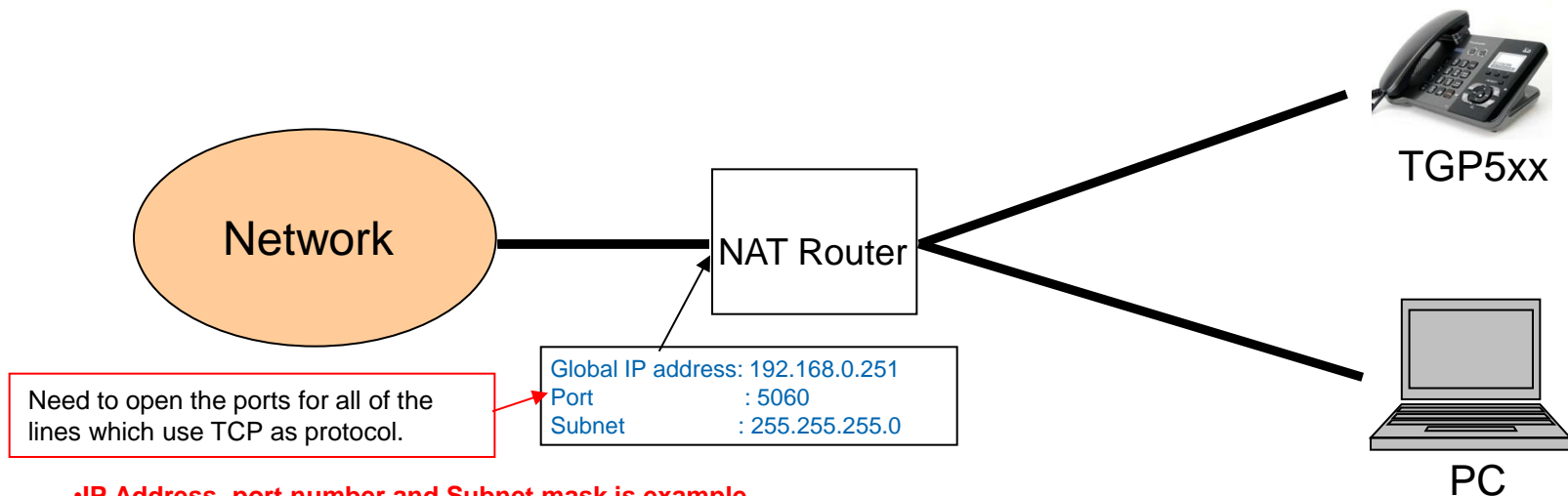
- Setting Port number on TGP's Web user interface



* IP Address and Subnet mask is example.

Step1 NAT Router settings

1. Activate IP Masquerade function of NAT Router
2. Check the global address of NAT Router
3. Open Port of NAT Router connected with network side



- IP Address, port number and Subnet mask is example.
- Also, please refer manual of router for how to open port of NAT router.

Step2 TGP settings (Setting Static global address)

Setting Static global address on TGP's Web user interface

Panasonic
KX-TGP550T04

Status **3. Network** System VoIP Telephone Maintenance

Web Port Close

Network

- Basic Network Settings
- Ethernet Port Settings
- HTTP Client Settings
- Global Address Detection
- 3. Static NAPT Settings**

Static NAPT Settings

Complete

Global IP Address

Global IP Address **4.** 192.168.0.251 [Null: Disable]

Even if you enter a value for this setting, if "Global Address Detection" is enabled, the detected global IP address will be used.

Enable Global IP Address Usage per Line

Line 1	5. <input checked="" type="radio"/> Yes <input type="radio"/> No
Line 2	<input type="radio"/> Yes <input checked="" type="radio"/> No
Line 3	<input type="radio"/> Yes <input checked="" type="radio"/> No
Line 4	<input type="radio"/> Yes <input checked="" type="radio"/> No
Line 5	<input type="radio"/> Yes <input checked="" type="radio"/> No
Line 6	<input type="radio"/> Yes <input checked="" type="radio"/> No
Line 7	<input type="radio"/> Yes <input checked="" type="radio"/> No
Line 8	<input type="radio"/> Yes <input checked="" type="radio"/> No

External RTP Port

Channel 1-3	0 [1024-49150: Even Number Only, 0: Disable]
	0 [1024-49150: Even Number Only, 0: Disable]
	0 [1024-49150: Even Number Only, 0: Disable]

Set a value for all fields, or set all fields to 0 (disable).

6. Save Cancel

1. Open TGP's Web user interface.
2. Login administrator account.
3. Click [Network] – [static NAPT Settings].
4. Enter "Global IP Address" checked at Step1-2.
5. Select "Yes" to "Enable Global IP Address Usage per Line", you want to use Lines as TCP connection.
6. Click [Save].

Step3 TGP settings (Setting Port number)

Setting Port number on TGP's Web user interface

The screenshot shows the Panasonic KX-TGP550T04 web interface. The 'VoIP' tab is selected in the top navigation bar. The 'SIP Source Port' field is set to 5060. The '- Line 1' option is selected in the left sidebar. The 'Save' button is highlighted at the bottom.

1. Click [VoIP].

2. Click [-Line *] selected "Yes" at Step2-5.

3. Enter Port number opened at Step1-3 to "SIP Source Port".

4. Click [Save].

1. Click [VoIP].
2. Click [-Line *] selected "Yes" at Step2-5.
3. Enter Port number opened at Step1-3 to "SIP Source Port".
4. Click [Save].

THE SETTING WAS COMPLETED!

Access the Web user interface

1. Confirm the IP address of KX-TGP5xx.

1-1 : Handset [MENU] (center of joystick) → [#][5][0][1].

1-2 : Confirm the IP address displayed on LCD.

2. Embedded Web.

2-1 : Handset [MENU] (center of joystick) → [#][5][3][4].

2-2 : [1] (On) → [SAVE] (center of joystick) → [OFF].

3. Access the Web user interface.

3-1 : Open your Web browser.

3-2 : Enter your KX-TGP5xx URL to Web browser
(http://**your KX-TGP5xx IP address**) .

3-3 : Enter user name (**admin**) and password (**adminpass**) and click “OK”.

3-4 : The Web user interface window is displayed.

Configure the settings for the unit as desired.